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REPORT OF THE LIBRARIAN.

The additions to the library received during the past twelve months have shown a gratifying increase over the accessions of the year before. They number 4,866, consisting of 4,335 pamphlets and parts of periodicals, 475 volumes, 46 maps, and 10 photographs.

They were derived from the following sources:—

Societies,	2,010	W. W. Jefferis,	6
Editors,	998	Geological Survey of Penn-	
I. V. Williamson Fund, . . .	671	sylvania,	6
General Appropriation, . . .	420	California State Mining Bu-	
Authors,	180	reau,	6
United States Dep. of In-		Dr. Benj. Sharp,	5
terior,	78	Secretary of State, India, .	5
Smithsonian Institution, . .	56	H. A. Pilsbry,	5
Hon. D. W. Voorhees, . . .	51	United States Department	
United States Department of		of Labor,	4
Agriculture,	45	Kew Botanical Garden, . .	4
Geological Survey of Sweden, .	33	J. A. Lintner,	3
Rev. L. T. Chamberlain, . .	20	Pennsylvania State Board of	
Pennsylvania State Library, .	19	Health,	3
Wilson Fund,	19	Geological Survey of New	
United States Department of		Jersey,	2
State,	18	Geological Commission of	
Dr. Samuel G. Dixon, . . .	17	France,	2
United States Treasury De-		United States Coast and Ge-	
partment,	16	odetic Survey,	2
Chas. P. Perot,	15	Department of Geology, In-	
Minister of Public Works,		diana,	2
France,	12	Norwegian Government, . .	2
Tennessee State Board of		Charles E. Smith,	2
Health,	12	Department of Works, Mex-	
Colorado Scientific Society, .	9	ico,	2
Superintendent of the Cen-		Costa Rica National Museum, .	2
sus, India,	9	Geological Survey of Minne-	
Geological Survey of Italy, .	9	sota,	2
E. L. Gilliams,	9	Illinois State Bureau of Labor	
Thomas Meehan,	9	Statistics,	2
University of Kiel,	8	Dr. John Eckfeldt,	2
United States War Depart-		Massachusetts Commission-	
ment,	8	ers of Inland Fisheries, .	1
Department of Mines, New		Maryland State Weather	
South Wales,	8	Service,	1
Dr. H. C. Chapman, . . .	8	Geological Survey of Geor-	
Geological Survey of India, .	6	gia,	1

Geological Survey of Alabama,	1	Iowa Geological Survey, . .	1
United States Fish Commission,	1	Mrs. H. Carvill Lewis, . .	1
United States Civil Service Commission,	1	Angelo Heilprin,	1
Department of Mines, Nova Scotia,	1	East Indian Government, .	1
Upsal Observatory,	1	Venezuelan Government, .	1
S. R. Roberts,	1	Norwegian Meteorological Institute,	1
Dr. Henry Skinner,	1	Illinois State Board of Agriculture,	1
Dr. M. V. Ball,	1	Dr. H. C. Wood,	1
Directors of City Trusts, Philadelphia,	1	American Humanitarian League,	1
Australian Museum,	1	Comité Météorologique International,	1
		John L. Peyton,	1

They were distributed to the several departments of the library as follows:—

Journals,	3,910	Ornithology,	18
Geology,	234	Agriculture,	15
Botany,	133	Physical Science,	14
Conchology,	113	Encyclopedias,	11
General Natural History, .	58	Herpetology,	10
Anthropology,	54	Ichthyology,	9
Entomology,	43	Chemistry,	8
Mammalogy,	28	Helminthology,	7
Anatomy and Physiology, .	27	Bibliography,	5
Mineralogy,	22	Geography,	1
Voyages and Travels, . . .	19		

In addition to these, 127 works having no relation to science have been received and catalogued for future disposition by the Library Committee.

The increase in the number of accessions is due to replies received to 258 applications for deficiencies and 62 propositions for exchange of publications. The latter included letters written to all the scientific societies and journals not yet on the Academy's exchange list, the names of which could be ascertained. The results of the correspondence have been encouraging.

The binding has been confined almost entirely to the department of journals and periodicals, 403 volumes having been bound during the year, while 86 volumes are now in the hands of the workmen. Much still remains to be accomplished, although the good results of the last two years' comparatively liberal appropriations for binding are

evident. The volumes are always carefully collated in the Academy before being sent out of the building. The work was interrupted during the summer in consequence of the Librarian's absence in Europe. He took occasion to visit such libraries of scientific societies as could be reached in the cities visited, and is glad to be able to state that no library devoted purely to natural history seen by him was superior either in extent or in convenience of arrangement to that of the Academy.

Perhaps the most important bibliographical aid to the scientific student is the Royal Society Catalogue of Scientific Papers. The ten volumes now issued embrace an alphabetical arrangement of authors with the titles of their contributions from 1800 to 1883. It has long been felt that a catalogue of these papers arranged according to subject was a most important desideratum, but one which must necessarily be the work of co-operation among the scientific societies and bibliographers of the world. Attention was called to the desirability of such a compilation in the report of the Librarian of the Academy for 1889, and it is, therefore, now a cause of congratulation that the subject is under consideration by the Royal Society of London.

A circular having been received from the Society asking for co-operation and suggestion, a committee was appointed consisting of Messrs. Philip P. Calvert, Henry Pilsbry, Stewardson Brown, Benjamin Sharp and Theodore D. Rand, with the Librarian as Chairman, to which the document was referred. A report was adopted by the Academy to the effect:—

1. That a catalogue of scientific papers as proposed by the Royal Society is desirable and that international co-operation should be engaged in its preparation.

2. That in order to secure uniformity in all parts of such a catalogue, a central bureau, as suggested by the Committee of the Royal Society, appears to be necessary, rather than that separate portions of the catalogue should be prepared by various institutions, such central bureau to be under the direction of the Royal Society, from which the proposition emanates; all publications of societies and monographs to be sent to such central bureau; the expenses to be met by returns from the sale of copies of the catalogue.

3. That such a catalogue should be classified and should be issued at least once a year, each volume to be provided with an alphabetical index.

4. That the scope of such a classified catalogue should embrace the various yearly bibliographies of special sciences now issued.

5. That whenever translations or summaries are believed to be desirable, English should be made the basis of the catalogue.

The Academy is indebted to George Vaux, Mary M. Vaux, George Vaux, Jr., and Wm. S. Vaux, Jr., for a fine portrait in oil of the late Wm. S. Vaux, whose long connection with the Academy as Curator, Vice-President, and member of various executive committees for over forty years, together with his permanent association with the mineralogical and archæological departments of the Museum, of which the Wm. S. Vaux Collections form an important part, renders this memorial of unusual interest.

Special acknowledgment is due to Mr. Wm. J. Fox for his efficient and faithful discharge of the duties of the office during the Librarian's absence. Means were again provided by friends of the Academy for the employment during the summer months of Signor Emanuele Fronani, much of whose time was devoted to the correspondence regarding deficiencies and exchanges.

All of which is respectfully submitted.

EDWARD J. NOLAN,

Librarian.

REPORT OF THE CURATORS.

The Curators report that the museum, so far as regards the preservation of the specimens, is in the satisfactory condition described in their last annual report, while important progress has been made during the year in the rearrangement, marking, and cataloguing of the collections.

It is also a satisfaction to report the completion of the new museum building and the transference of some of the collections to the new galleries.

It was deemed most desirable to devote the first floor of the new museum to the departments of Archæology and Mineralogy, and in accordance with this plan the entire Vaux collection, numbering 33 cases, has been transferred under the direction of the Curators and Mr. W. W. Jefferis, the special curator of this collection. Mr. Jefferis has given many valuable minerals to this great collection during the year ; and thanks to his untiring energy the entire cabinet